

iHA Series

Portable Passive Intermodulation Analyzer



Passive Intermodulation (PIM) Analyzer



The iHA series “Companion” Passive Intermodulation (PIM) analyzer is designed to complement the iQA and iMT series high power PIM test solutions. This low power, highly portable analyzer is an ideal tool for identifying PIM performance issues in difficult to access locations. As with all low power PIM analyzers, the iHA series is not intended for system level site certification.

PRODUCT FEATURES

- Small, light weight
- Battery operated
- Rugged construction
- One button push-to-test
- LED bar display indicates PIM level
- Fixed frequencies, powers and IM product
- Charger, shoulder strap & transit case included

TECHNICAL SPECIFICATIONS |

SYSTEM

Measurement method	Reverse (reflected) PIM, 3rd order
Residual PIM	< -125dBm/-161dBc max (<-130dBm/-166dBc typ.)
User interface ports	1x RF output (7-16 DIN female)
Display	2x LED bar displays indicate PIM level, battery level, display mode and alarms

TRANSMITTER

Transmit frequencies	See model table
Frequency accuracy	± 100ppm typ.
Power per tone (fixed)	2x 4W (+36dBm)
Power accuracy (per tone)	± 1dB (max)

RECEIVER

Receive frequency	See model table
Measurement noise floor	< -134dBm
Measurement range	-80dBm to -130dBm

TECHNICAL SPECIFICATIONS CONTINUED |

ELECTRICAL

Battery	25.9 VDC, 2500mAH Li-ion battery pack (internal)
Battery life	>1hr with RF power continuously on
Battery charger	External charger, 29.4 VDC, 1.2 Amp

MECHANICAL

Analyzer dimensions	14 x 9 x 3.5in (350 x 230 x 90mm)
Case dimensions	22 x 14 x 9in (550 x 350 x 230mm)
Analyzer weight	11lbs (5kg)
Analyzer + case weight	25lbs (11kg)

ENVIRONMENTAL

Operating temperature range	0°C to +45°C
Storage temperature range	-10°C to +60°C
Ingress protection (IP)	IP54
Relative humidity	5% to 95% RH non-condensing

MODELS |

	DESCRIPTION	TX FREQUENCY 1	TX FREQUENCY 2	RX FREQUENCY (PIM)
iHA-0850B	850MHz	894.0MHz	870.0MHz	846.0MHz
iHA-0900B	GSM900	960.0MHz	935.05MHz	910.1MHz
iHA-1900B	PCS1900	1990.0MHz	1930.0MHz	1870.0MHz



Portable transit case for analyzer and accessories.

WARNING: Use of the portable PIM analyzer in a radiating mode, for example when connected to an antenna not enclosed in an anechoic environment, may be a violation of licensing regulations. Users should have permission in advance, from any licensed operators that might be affected by these tests. Furthermore, radiating high RF power can pose a personnel risk.

Specifications subject to change without notice.